



Sustainability Implementation

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Agenda Item 2 & 3: Sustainability Policy & Urban Forestry

March 8, 2016

Sacramento, CA



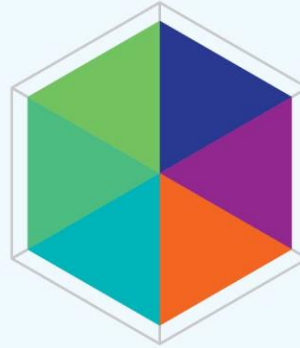
AGENDA ITEM 2:
**CONSIDER APPROVING AN UPDATED
SUSTAINABILITY POLICY**

California High-Speed Rail: Comprehensive Sustainability



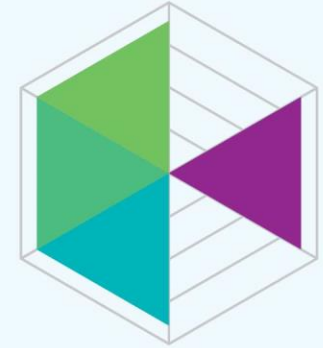
COMMUNITIES

- Station Area Planning Funding
- Eco District Approaches
- Connected Communities Strategies
- Transit Access and Active Transportation
- Grade Separations
- Urban Tree Planting



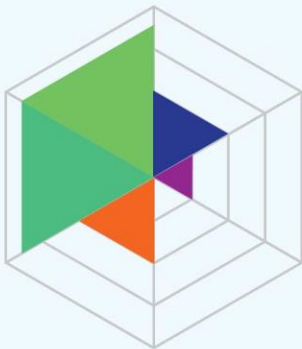
SUSTAINABLE INFRASTRUCTURE

- Tier 4 Engines
- VERA Offsets
- Materials Quality: Global Warming and Healthy Materials
- Climate Change Adaptation Planning & Resilience
- Water Conservation Practices
- Green infrastructure and Infiltration
- Recycling



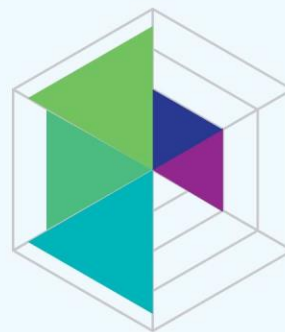
ENERGY

- Net Energy Positive Stations and District Planning Opportunities
- 100% Renewable Energy for Operations
- Efficient Trains



NATURAL RESOURCES

- Conservation and Regional Landscape Mitigation
- Agricultural Easements
- Cultural Resources and Tribal Considerations in Habitat Mitigation
- Rural Tree Planting



BUSINESS AND MANAGEMENT

- Targeted Hiring
- Small Business and Disadvantaged Business Program
- Apprenticeship Program
- Jobs and Workforce Development
- Biannual Business Plan

KEY

- Benefits to Disadvantaged Communities (AB1352;SB535)
- Implement Policy (SB 350, B-30-15, B-18-12, SB 375)
- Minimize and Improve Air Quality Impacts
- Minimize and Reduce GHG emissions (AB32)
- Economic Development
- Beyond Business as Usual

Sustainability Policy Connections

99% Recycling
45,000 tons Recycled
12,000 mtco2e Avoided
266 Businesses
94 Businesses in Disadvantaged Communities
27 Cranes, Scrapers, Loaders
49% NOx
41% ROG
41% PM
1,400 mtco2e Emitted
180 pounds of Black Carbon Avoided
35 Engines
26 tons Criteria Pollutants Offset
100% Recycled Steel Rebar
25% Fly Ash
83,000 Job Hours



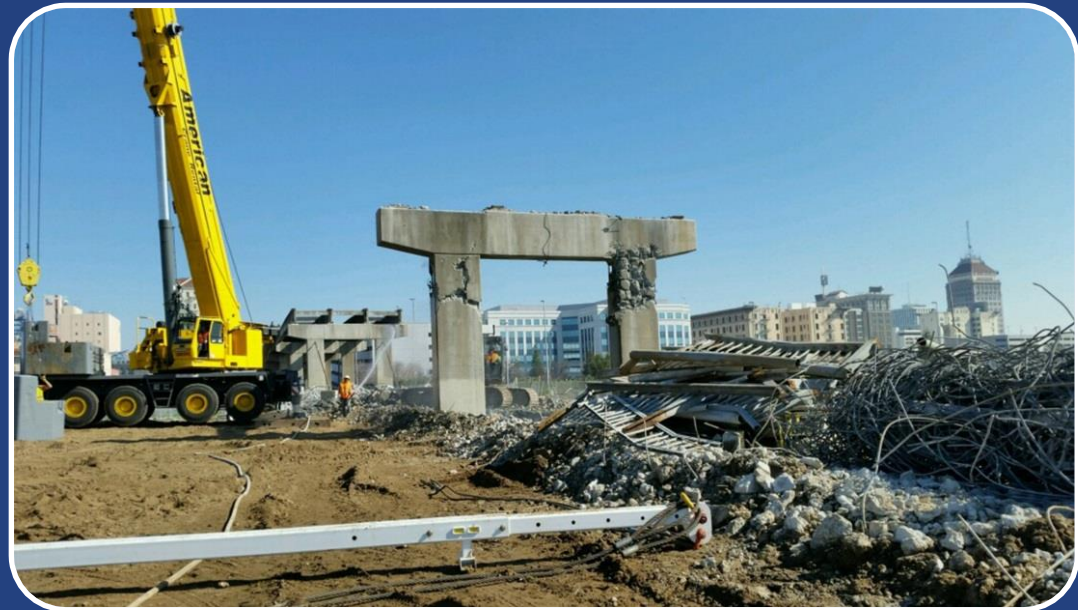
Sustainability Policy Connections



176,000 MTCO₂e Reduced in Year One

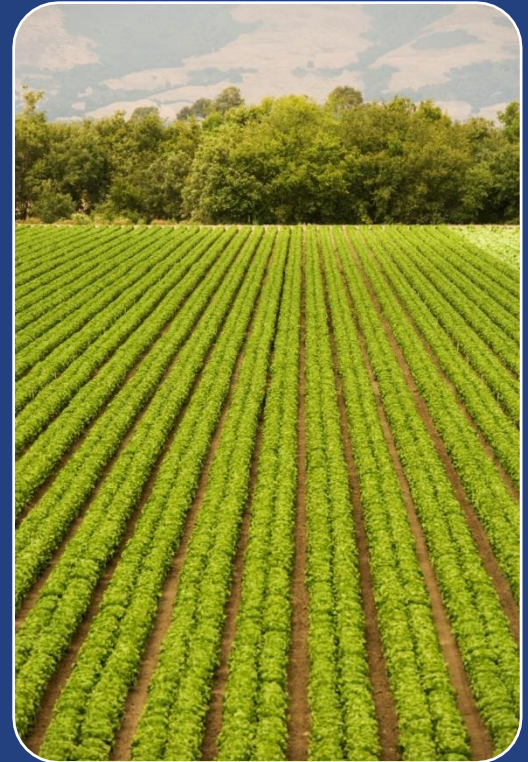
2,500,000 MTCO₂e Reduced by 2030

CONSTRUCTION PROGRESS



NATURAL RESOURCES

- Regional Habitat Conservation And Mitigation
- Lazy K Ranch, 500 Acres, Connected Habitat
- Agricultural Easements Through The Department Of Conservation
- Cultural Resources And Tribal Resources Taken Into Account In Mitigation
- Initial Investment In California's Natural Resources



STATION COMMUNITIES: Working with Our Partners

- **Leverage Investment to Deliver California Policy**

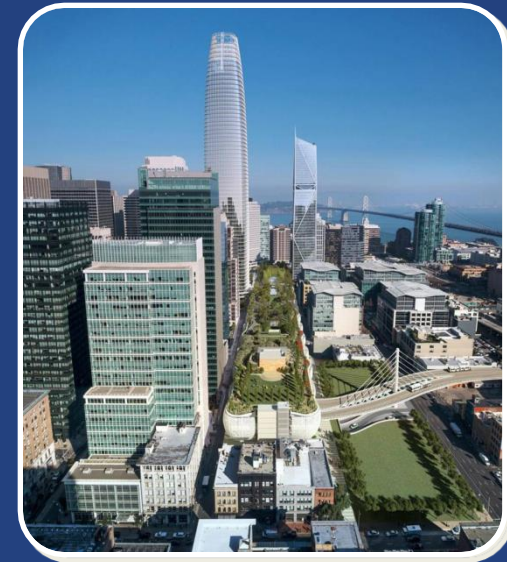
- » Collaborate on a clear set of investments
- » Listen to community need and align with state programs
- » Leverage project to achieve SB 375

Long-term Certainty for Investors:

- » Vision for the station district
- » Opportunities timeline to prioritize investments
- » Access planning
- » Coordinated infrastructure plan
- » High performance design of the station and into the surrounding district

Results Now

- » Small business workshops and participation
- » Providing and distributing information about apprenticeship programs and job opportunities
- » Jobs & Workforce Development
- » Executed station planning agreements with 7 cities



ACTION

- **Adopt a revised sustainability policy to identify materials sustainability and other actions in response to recent stakeholder feedback and board member direction, executive orders, and regulations**

PROPOSED SUSTAINABILITY POLICY UPDATES

- Zero-net GHG and criteria pollutant construction
- Environmental Product Declarations (EPDs) & prioritizing life-cycle considerations in materials selection
- 100% Renewable energy for operations
- Climate change risk analysis & adaptation planning:
CivicSpark Fellow
- Energy Net Positive design criteria & LEED Platinum facilities
- Reinforce water conservation & efficiency
- Program activities that focus and prioritize benefits to disadvantaged communities

SUSTAINABILITY POLICY

Questions?

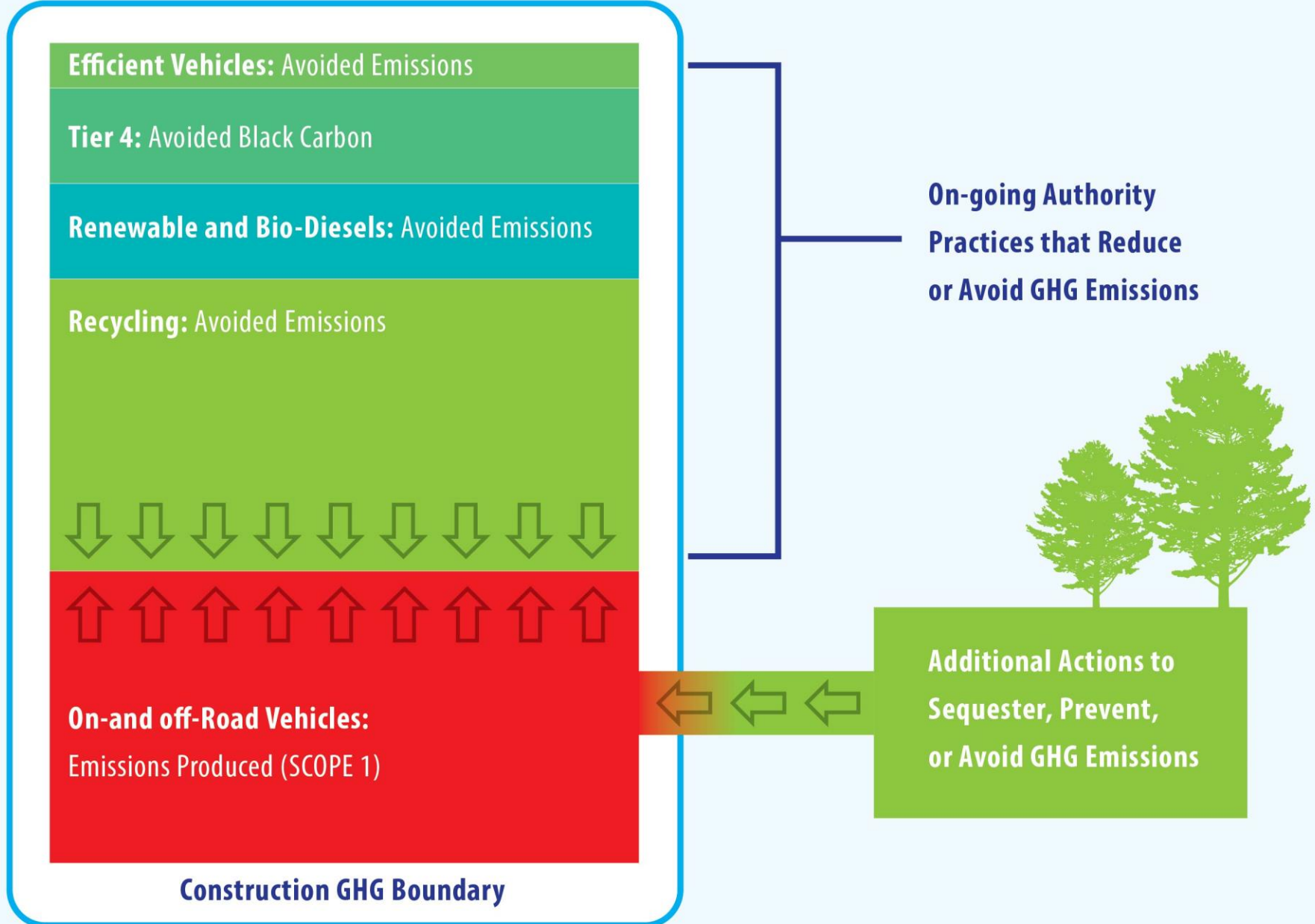
AGENDA ITEM 3:

**CONSIDER DIRECTING STAFF TO NEGOTIATE AND EXECUTE AN
INTERAGENCY AGREEMENT WITH THE CALIFORNIA DEPARTMENT OF
FORESTRY AND FIRE PROTECTION FOR URBAN FORESTRY SERVICES**

AGREEMENT DETAILS

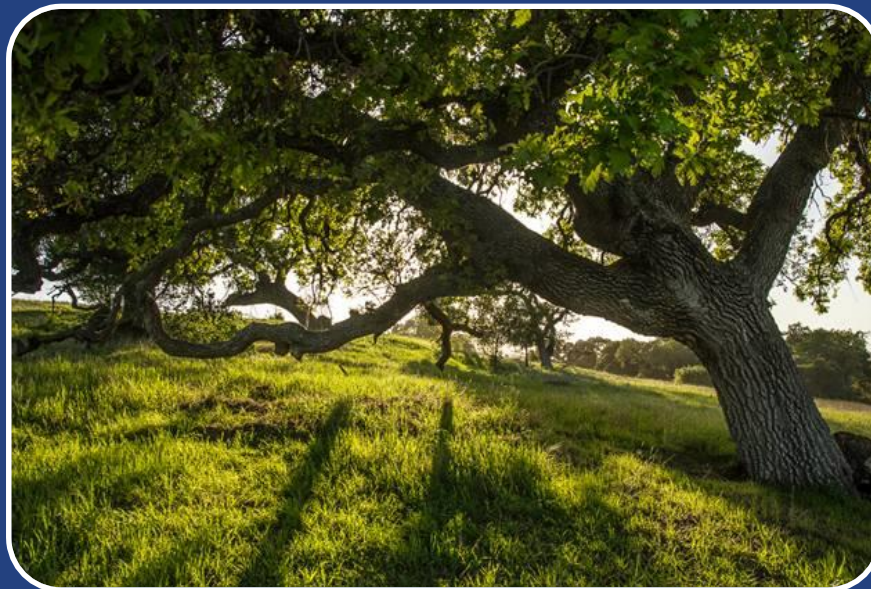
- **California Department of Forestry and Fire Protection**
- **\$6 Million**
- **Five Years**
- **Services Through Landowner Assistance and Community and Urban Forestry Programs.**

Minimizing Construction GHG Emissions



CALFIRE AGREEMENT

- Initial Investment will sequester, prevent or avoid additional GHG emissions
- Criteria for programs that reflect project goals
 - » Benefit communities
 - » Achieve measurable, tangible results
- Regular reporting from CalFIRE on projects selected and progress



CALFIRE AGREEMENT

Questions?